## Yinbin Han

Ymbin Hai	11	yh6006@nyu.edu   Brooklyn, NY	
EDUCATION	New York University Ph.D. Student, Finance and Risk Engineering Advisors: Renyuan Xu, Meisam Razaviyayn (USC)	Aug 2024 – Present	
	University of Southern California Ph.D. Student, Industrial and Systems Engineering	Aug 2021 – Aug 2024	
	Chinese University of Hong Kong, Shenzhen B.S. Mathematics	Sep 2017 – Jun 2021	
	University of California, Berkeley Exchange Student	Jan 2020 – May 2020	
INDUSTRIAL EXPERIENCE	Meta Research Scientist Intern	May 2024 – Aug 2024	
RESEARCH INTERESTS	<ul> <li>Applied Probability and Stochastic Modeling</li> <li>Nonconvex Optimization and Stochastic Optimization</li> <li>Data-driven Decision Making and Reinforcement Learning</li> <li>Stochastic Control and Mathematical Finance</li> <li>Diffusion Models and Schrödinger Bridge</li> </ul>		
JOURNAL PUBLICATIONS	1. 1. Hall, W. Hazaviyayii, and W. Ha. I oney diadient converges to		
	<ul><li>Learning, 2022.</li><li>2. Y. Han and Z. Wang. "Optimal Switching Policy for Batch Servers." Operations Research Letters, 2023.</li></ul>		
CONFERENCE PUBLICATIONS	1. Y. Han, M. Razaviyayn, and R. Xu. "Stochastic Control for Fine-tuning Diffusion Models: Optimality, Regularity, and Convergence." International Conference on Machine Learning (ICML), 2025.		
	2. Y. Han, M. Razaviyayn, and R. Xu. "Neural network-based score estimation in diffusion models: Optimization and generalization." <i>International Conference on Learning Representations (ICLR)</i> , 2024.		
	• Short version accepted by NeurIPS works	hop on Diffusion Models, 2023.	
INVITED TALKS	<ul> <li>INFORMS Annual Meeting, Atlanta</li> <li>International Conference on Continuous Optim</li> <li>International Conference on Machine Learning</li> <li>INFORMS Applied Probability Society Conference</li> <li>Advances in Stochastic Control and Reinforcent</li> <li>INFORMS Annual Meeting, Seattle</li> </ul>	Vancouver Jul 2025 ence, Atlanta Jun 2025	

	Val. Camalian Conference Name Harris	Oct 2024	
	<ul> <li>Yale Sampling Conference, New Haven</li> <li>International Conference on Learning Representations, Vienna</li> <li>INFORMS Optimization Society Conference, Houston</li> </ul>		
	• NeurIPS 2023 Workshop on Diffusion Models, New Orleans	Dec 2023	
	• INFORMS Annual Meeting, Phoenix	Oct 2023	
	• NeurIPS Workshop OPT2022, New Orleans	Dec 2022	
	• INFORMS Annual Meeting, Indianapolis	Nov 2022	
ORGANIZERS	• Session co-chair at International Conference on Continuous Optimization July 2025		
	• Co-organizer of the NYC Brown Bag Reading Group on Foundations of Generative AI Sep 2024		
	• Session co-chair at INFORMS Optimization Society Conference	ence Mar 2024	
REVIEWERS	<ul> <li>Journals: SIAM Journal on Control and Optimization, European Journal Operational Research, Finance and Stochastics.</li> <li>Conferences: International Conference on Learning Representations (ICLR International Conference on Machine Learning (ICML), Neural Informatic Processing Systems (NeurIPS), International Conference on Artificial Intelligence and Statistics (AISTATS), Conference on Uncertainty in Artificial Intelligence (UAI).</li> </ul>		
PROFESSIONAL • Institute for Operations Research and the Management Sciences (INFOR			
MEMBERSHIP	- institute for operations research and the management selences (in ordins)		
	Tippined Frombiney Society (III S)		
TEACHING	NYU, Teaching Assistant		
EXPERIENCE	• FRE-GY 5020 & 5030: Bootcamp	Summer 2025	
	• FRE-GY 6233: Stochastic Calculus and Option Pricing	Spring 2025	
	• FRE-GY 9073: Stochastic Systems and Modern ML Theory	RE-GY 9073: Stochastic Systems and Modern ML Theory Fall 2024	
	USC, Teaching Assistant		
	• ISE 530: Optimization Methods for Analytics Fa	ll 2023, Spring 2024	
	CUHKSZ, Undergraduate Student Teaching Fellow • MAT2002: Ordinary Differential Equations	Spring 2021	
	• BIO2001: General Biology	Summer 2019	
AWARDS &	• Yale Sampling Conference Student Travel Grant	Oct 2024	
HONORS	• National Scholarship of China	2020	
	• Academic Performance Scholarship, CUHKSZ	2018, 2019, 2020	
	• Dean's List, CUHKSZ	2018,2019,2020	
TECHNIC 4 I	P		
TECHNICAL SKILLS			
	• Familiar with Java, C/C++, MySQL		

 $\bullet\,$  Experience with Hadoop, Spark, and CUDA